

ZHENEVSKAYA, M.G., Cand Chem Sci -- (diss) " Synthesis
and polymerization of *p*-butyl and *p*-butyrophenyl
methacrylic esters." Len, 1957. 12 pp. (Acad Sci USSR. Inst of Compounds
of High Molecular Weight). 100 copies.
(KL, 12-58, 96)

5(3)

AUTHORS:

Sheremeteva, T. V.,
Zhenevskaya, M. G., Koton, M. M.

SOV/62-59-3-22/37

TITLE:

Synthesis and Polymerization of p-Butyl- and p-Butyropheryl
Methacrylic Esters (Sintez i polimerizatsiya p-butil- i
p-butiufenilmetakrilovykh efirov). Communication 2
(Soobshcheniye 2)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,
1959, Nr 3, pp 528-534 (USSR)

ABSTRACT:

In the present paper various isomers of the p-butyl- and
p-butyropheryl methacrylic esters which have hitherto not been
described were synthesized in order to investigate the effect
of the branching of the alkyl substituents in the phenyl
nucleus of the monomers on the properties of the polymers
obtained from these esters. The synthesis was carried out in
two stages: 1) Production of p-butyl- and p-butyrophenols,
2) production of p-butyl- and p-butyropheryl methacrylates.
In the course of the investigation of the properties of the
polymers obtained from different isomeric butylphenyl
methacrylates their different behaviour towards the solvents
was observed. Products in which the butyl group is connected

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Synthesis and Polymerization of p-Butyl- and
p-Butyrophenyl Methacrylic Esters. Communication 2

SOV/62-59-3-22/37

with the phenyl nucleus by means of a quaternary or tertiary carbon proved to be soluble. In those cases in which the linking by the secondary carbon atom is brought about by the carbonyl group, the polymers are only partly soluble. The insolubility of the polymer is due to the branching of the polymer chain with subsequent cross-linking which leads to the formation of three-dimensional structures. Since the soluble and the insoluble polymers are formed due to the polymerization of the isomeric butylphenyl esters of the methacrylic acid of the chain which causes the branching of the cross-linking probably does not take place in the main chain but in the alkyl substituent and depends on its structure. The different structure of the substituents contained in the benzene nucleus of the synthesized esters causes the different vitrification temperatures of the polymers obtained from these esters. The strongest branching of the substituents causes a higher vitrification temperature. This temperature fluctuates in the case of various isomers between 47 and 144°. The substitution of the CH₂-group in the benzene residue by the CO-group i.e. the transition from one alkyl into an acyl substituent

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Synthesis and Polymerization of p-Butyl- and
p-Butyropheryl Methacrylic Esters. Communication 2

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increases the vitrification temperatures by 35° on the average. The degree of the conversion of a monomer into a polymer also depends on the character of the substituent i.e. esters with a branched structure attain a lower degree of conversion. There are 4 tables and 9 references, 6 of which are Soviet.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR
(Institute of High-Molecular Compounds of the Academy of Sciences, USSR)

SUBMITTED: June 8, 1957

Card 3/3

ZHENEVSKAYA, M.G.; SHEREMETEVA, T.V.; KOTON, M.M.

Synthesis and polymerization of p-butyl- and p-butyrophenol methacrylates. Report No.3: Dependence between the structure of esters and their tendency to polymerize. Izv.AN SSSR, Ser.khim. no.2:331-334 F '64. (MIRA 17:3)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

SHEREMETEVA, T.V.; ZHDNEVSKAYA, M.G.; KOTON, M.M.

Synthesis and polymerization of p-butyl and p-butyrophenylmethacrylates, Report No.2. Izv.AN SSSR.Otd.khim.nauk no.3:528-534
Mr '59. (MIRA 12:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Methacrylic acid) (Polymerization)

Chitnevskaya
KOTON, M.M.; SHEREMET'YEVA, T.V.; ZHENEVSKAYA, M.G.

Synthesis and polymerization of p-tertiary butylphenylmethacrylate.
Izv.AN SSSR,Otd.khim.nauk. no.7:826-827 J1 '57. (MIRA 10:10)

1.Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Methacrylic acid) (Polymerization)

"APPROVED FOR RELEASE: 03/15/2001

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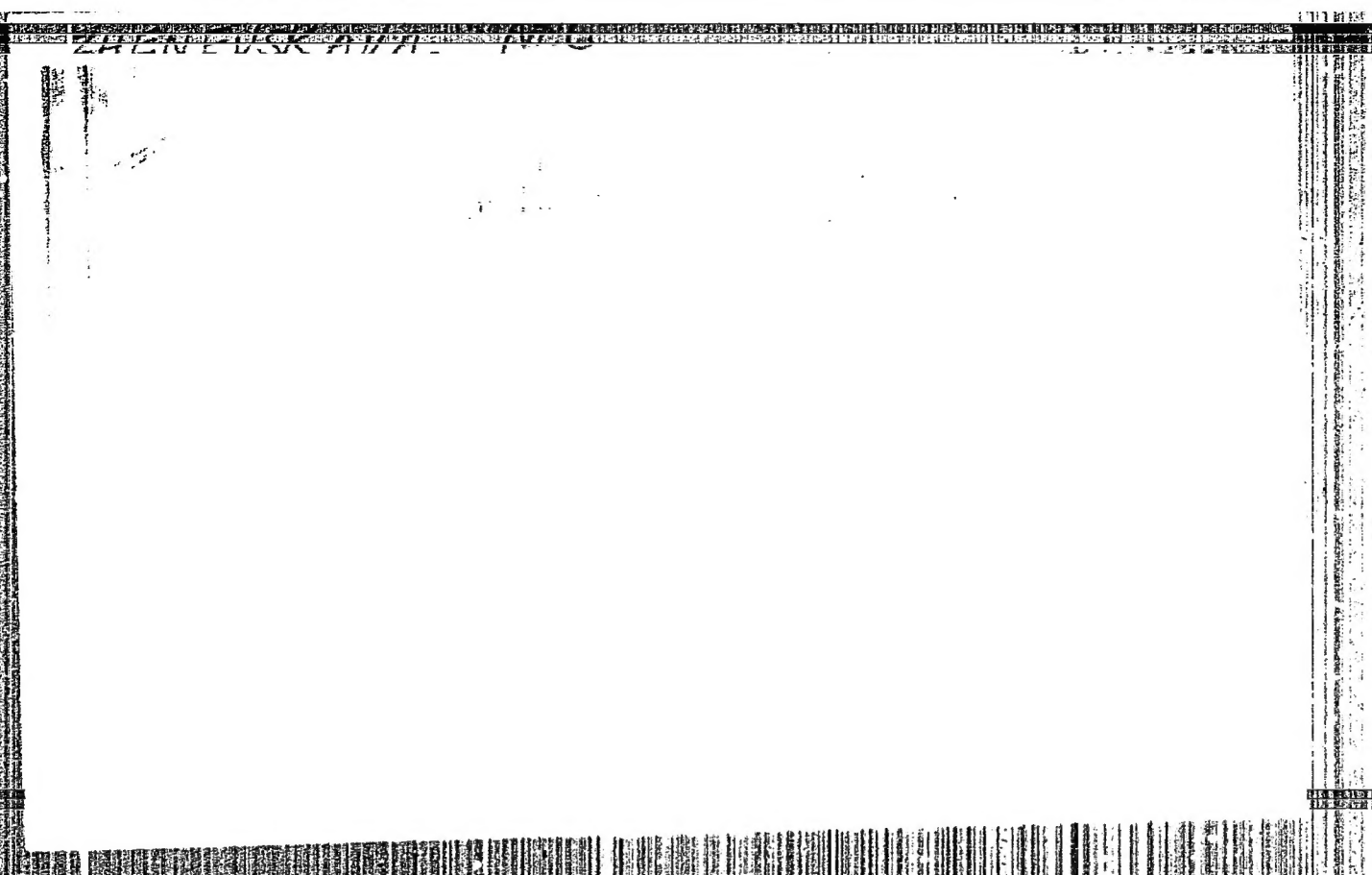
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CIA-RDP86-00513R002064710018-2"

ZHENEVSKAYA, R.P.

USSR/Medicine - Blood, Calcium
Medicine - Parathyroidectomy, Results

Apr 1948

"Reduction of Calcium Content in the Internal Medium
of Parathyroidectomized Frogs," R. P. Zhenevskaya,
Inst of Evolutionary Morph imeni A. N. Severtsov,
Acad Sci USSR, 3 pp

"Dok Ak Nauk SSSR" Vol IX, No 3

Studies to determine calcium content in blood of sub-
ject frogs and amphibia during various seasons of
year. Submitted by Acad I. I. Shmal'gauzen 24 Feb
1948.

TTX69

ZHENEVSKAYA, R. P.

FA 6/49T51

USSR/Medicine - Frogs

Jun 48

Medicine - Vitamin D

"Determination of Vitamin D in the Tissue of Frogs
in the Larvae and Adult Stage," R. P. Zhenevskaya,
Histomorphogenesis Lab, Inst of Evolutionary Morph,
Acad Sci USSR, 2½ pp

"Dok Ak Nauk SSSR" Vol LX, No 9

Describes use of tadpoles and frog liver to cure
chicks suffering from rickets. Illustrated with
photographs and microsections. Results show high
percentage of Vitamin D in frog liver and tadpoles.

6/49T51

ZHENEVSKAYA, R. P.

PA 29/49T71

USSR/Medicine - Rats

Medicine - Liver, Regeneration

Mar 49

"Regeneration of the Liver in White Rats," R. P.
Zhenevskaya, Inst of Evolutionary Morph imeni A. N.
Severtsev, Acad Sci USSR, 4 pp

"Dok Ak Nauk SSSR" Vol LXV, No 1

Shows that, with traumatic damage to the liver of a
white rat, restoration of the characteristic structure
of the organ is possible, as well as regeneration of
the liver tissue. Submitted by Acad K. I. Skryabin,
31 Dec 48.

29/49T71

ZHENEVSKA, R. P.

ZHENEVSKA, R. P. -- "Reduction Processes in the Liver of Vertebrate Animals." Sub 8 Beb 52, Moscow Order of Lenin State U imeni M. V. Lomono-
sov. (Dissertation for the Degree of Candidate in Biological Sciences).

SO: Vechernaya Moskva January-December 1952

~~ZHENEVSKAYA, R. P.~~

Regenerating processes in the liver of vertebrates. Trudy Inst.
morf.shiv. no.11:40-91 '54. (MIRA 8:2)
(Liver) (Regeneration (Biology))

"APPROVED FOR RELEASE: 03/15/2001

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APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064710018-2"

ZHELEVSKAYA, R.P.

Role of neuromuscular connection in the regeneration of muscles by
transplantation of crushed muscular tissue. Izv. AN SSSR. Ser.
biol. no.6:90-99 N-D '55. (MLRA 9:3)

1. Institut morfologii zhivotnykh Akademii nauk SSSR imeni A.N.
Sevartsova.

(MUSCLE) (NERVES) (TRANSPLANTATION(PHYSIOLOGY))

Country : USSR
 Category : General Biology. Individual Development. B
 Abs. Jour : RZhBiol., No. 2, 1959, No. 5121
 Author : Zhenevskaya, R. P.
 Institut. :
 Title : The Significance of the Neuro-Muscular Connection in the Restoration of Muscles by the Method of Transplanting Crushed *
 Orig Pub. : V.so.: Probl. funktsion. morfol. Dvigatel'n. Apparata. L. Medgis, 1956, 175-177
 Abstract : The gastrocnemius of rats was removed crushed and transplanted to the previous place. The restoration of this muscle depends upon the restoration of its impaired innervation. If neuro-fibers grow from the tibial nerve into the transplanted crushed tissue, a muscular organ is formed 1-2 weeks after the operation, whose weight amounts in controls to 30-40 percent of the paired muscle's weight. If the neurofibers of the abduct nerve did not grow into the muscle,

Card: 1/3 *Muscular Tissue.

Country : USSR
Category :

Abs. Jour :

Author :
Institut. :
Title :

Orig Pub. :

Abstract : then it was not restored. In individual cases, regardless of the nerve's severance and even of a lateral displacement of the central terminal, some regenerated neurofibers grew into the transplanted crushed tissue. Under such conditions the weight of the muscular organ amounted to 25-40 percent of the weight of the control gastrocnemius muscle. Microscopic

Card: 2/3

-30-

Country	: USSR
Category	:
Abs. Jour	:
Author	:
Institut.	:
Title	:
Orig Pub.	:
Abstract	: examination showed that the newly formed muscle consists of striated muscle tissue and is provided with formed motor end plates. -- G. V. Kharlova

Card: 3/3

USSR/General Biology - Individual Development.

B-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 33396

Author : Studitskiy, A.N., Zhenevskaya, R.P., Rumyantseva, O.P.
Inst : -
Title : Basic Techniques for Restoration of Muscles by Trans-
planting Ground Muscular Tissue.
(Osnovy tekhniki vosstanovleniya myshts posredstvom
peresadok izmelchennoy myshechnoy tkani).

Orig Pub : Ceskosl. morf., 1956, 4, No 4, 331-340

Abstract : From the example of restoring totally excised sural,
heel and foot-base muscles of a rat, by transplanting
ground muscular tissue, a detailed description of
operational technique and the course of the regenera-
tive process are given. The authors point out that for
the success of the operation it must be conducted under
sterile conditions (when infected, no regeneration oc-
curs) and the vascular-neural center must be preserved.

Card 1/3

1.8

USSR/General Biology - Individual Development.

B-4

Abs Jour : Ref Zhur - Biol., No 8, 1958, 33396

The amount of tissue ground to a pulp consistency should not exceed $\frac{1}{4}$ of the excised organ. When the ground muscular tissue is introduced into the bed of the excised muscle it should be applied in a thin layer to avoid necrosis. The blood which oozes out during the operation plays a positive role in the restorative process (it aids in binding the particles of transplanted tissue). Restorative processes are manifest in the regenerated tissue even in the first week, as shown, firstly, in proliferation of connective tissue elements which form the connective tissue model of the organ, and, secondly, in the progressive modifications of the particles of ground muscular tissue. Initially an amitotic division of nuclei and protoplasmic growth of these particles are noted; beginning with the second day myoblasts detach themselves from regenerated particles, which multiply mitotically. By the end of the second week of

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USSR/General Biology - Individual Development.

B-4

Abs Jour : Ref Zhur - Biol., No 8, 1950, 33396

development muscular tubules appear with transverse-streaked myofibrils. The first signs of contractile activity are noted in the regenerated tissues by the end of the third week. The differentiation of muscular tissue is influenced by mechanical conditions (tension) and the nervous system (denervation delays differentiation).

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ZHENYVSKAYA, R.P.

Growth and development of skeletal muscles during the post-embryonal period in sheep. Izv.Otd.est.nauk AN Tadsh.SSR no.13:109-123 '56.

1.Institut morfelegii zhivotnykh imeni akademika A.N.Severtseva
Akademii nauk SSSR. (MLRA 9:10)

(Sheep) (Muscles)

ZHENEVSKAYA, R.P.

Reflected morphological changes in muscles of the symmetrical
extremity in repeated transplantations of crushed muscle tissues
[with summary in English]. Izv. AN SSSR Ser. biol. no. 3:343-351
My-Je'58 (MIRA 11:6)

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR,
(TISSUES--TRANSPLANTATION)

AUTHOR: Zhenevskaya, R. P.

SOV/20-121-1-52/55

TITLE: The Role of Nerve Connections in Early Stages of Muscle Regeneration (Rol' nervnykh svyazey na rannikh etapakh regeneratsii myshtsy)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 1, pp. 182 - 185 (USSR)

ABSTRACT: The investigation of the rôle of the nerve-muscle connections mentioned in the title in the processes which taking place in the muscles is interesting with respect to the explanation of the trophic function of the nervous system. Contradicting opinions exist on the rôle of the nervous system in the regeneration processes. Several researchers are of opinion that the differentiation of cross-striated muscles is also possible in the absence of nerve connections (Refs 1,2). According to other authors the regeneration of a denervated muscle proceeds more slowly and imperfectly (Refs 5-7). Finally others found a deep-going dependence of the regeneration processes on the development of the nerve elements (Refs 8-15 et al.). In the present investigation 3 experimental series with white rats

Card 1/4

The Role of Nerve Connections in Early Stages of
Muscle Regeneration

SOV/20-121-1-52/55

were carried out in order to define precisely the rôle of the nervous system in early prefunctional stages of the regeneration: I) An autotransplantation of cut muscular tissue into the bed of the distant musculus gastrocnemius. The nervus tibialis was not injured. II) Autotransplantation with a simultaneous separation and deduction of the nerve trunk to the side. III) Autotransplantation like II), however, with the mentioned treatment of the nerve trunk only 10 days after the operation. Before they were killed, the retractile activity of the regenerated muscles of the experimental animals was investigated. For this purpose the incitation threshold of the nerve was determined by means of the inductive current. The obtained results confirm the previous data: the regeneration of the cut muscular tissue stops in the myoblastic and early myosymplastic stage in the case of a denervation which is carried out at the same time with an autotransplantation. If the nerve was, however, not injured, the regenerates are constructed of thin cross-striated muscle fibres and -tubes after 21 - 22 days after the autotransplantation. At the proximal end of the regenerates matted nerve fibres are always

Card 2/4

The Role of Nerve Connections in Early Stages of
Muscle Regeneration

SOV/20-121-1-52/55

to be seen. A part of them has already a marrow coat. The nerve fibres have spadicuous terminations or they end in differentiating motor small plates. However, the new-formed muscular fibres have an atypical shape, if they were denervated after the regeneration. The differentiation is, however, continued even in this case. The above mentioned results are important for the understanding of the nature of the nerve trophism. They make possible a real separation of the trophic influence of the nervous system from the functional one. This has hitherto been considered unworkable according to the current opinions in physiology (Ref 18). There are 2 figures and 18 references, which are Soviet.

ASSOCIATION: Institut morfologii zhivotnykh im.A.N.Severtsova Akademii nauk SSSR (Institute of Animal Morphology imeni A.N.Severtsov, AS USSR)

PRESENTED: March 25, 1958, by I.I.Shmal'gauzen, Member, Academy of
Card 3/4 Sciences, USSR

The Role of Nerve Connections in Early Stages of
Muscle Regeneration

SOV/20-121-1-52/55

SUBMITTED: March 18, 1958

1. Muscles--Regeneration
2. Nervous system--Physiology
3. Neuromuscular transmission
4. Muscles--Transplantation
5. Nerves--Transplantation

Card 4/4

ZHENEVSKAYA, R.P. (Moskva, B-296, 1-ya Cheremishkinskaya ul., 4/34, kv.201)

Effect of de-afferentation on the regeneration of skeletal muscle.
Ark. anat. giat. i embr. 39 no. 12:42-50 '60. (MIRA 14:2)

1. Laboratoriya gistologii (zav. - prof. A.N. Studitskiy)
Instituta morfologii zhivotnykh im. A.N. Severtsova AN SSSR.
(MUSCLE-DEGENERATION AND REGENERATION)

ZHENEVSKAYA, R.P.

Effect of inflammation on the regeneration of muscles in experiments with minced muscle tissue. *Biul. eksp. biol. i med.* 49 no.1:104-110 Ja '60.
(MIRA 13:7)

11. Iz laboratorii gistologii (zav. - prof. A.N. Studitskiy) Instituta morfologii zhivotnykh im. A.N. Severtsova (dir. - chlen-korrespondent AN SSSR prof. G.K. Khrushchev) AN SSSR, Moskva. Predstavlena deystv. chlenom AMN SSSR V.N. Chernigovskim.
(MUSCLES—TRANSPLANTATION)

(MUSCLES—INFLAMMATION)

ZHENEVSKAYA, R.P.

Experimental histological analysis of neurotrophic regulation of
reparatory processes in the muscle tissue. Biul. MOIP. Otd. biol.
65 no.5:129-130 8-0 '60.

(REGENERATION (BIOLOGY))
(MUSCLES--INNERVATION)

(MIRA 13:12)

ZHENEVSKAYA, R.P. (Moskva, V-333, 1-ya Cherepushkinskaya ul., 4/34, korp.
B., kv.201)

Regeneration of muscle by the method of transplanting granulated
muscle tissue after sensory denervation. Arkh. anat. gist. i embr.
40 no.6:46-53 Jo '61. (MIRA 15:2)

1. Laboratoriya gistologii (zav. - prof. A.N.Studitskiy) Instituta
morfologii zhivotnykh imeni A.N.Severtsova AN SSSR.
(MUSCLES TRANSPLANTATION) (REGENERATION (BIOLOGY))
(NERVES, SPINAL SURGERY)

ZHENEVSKAYA, R.P.

Transplantation of muscle fragments into the vertebral canal. Dokl.
AN SSSR 140 no.3:696-698 S '61. (MIRA 14:9)

1. Predstavleno akademikom A.N.Bakulevym.
(TISSUES TRANSPLANTATION)

ZHENEVSKAYA, R.P.

*Probably
N.M.*

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BEVERIN, Sergey Yevgen'yevich, Institute of Pharmacology and Chemotherapy, Academy of Medical Sciences, Moscow; VUL'FSON, N. S. (possibly P.L. VUL'FSON, Chair, Animal Biochemistry, Moscow State University (1959 position))- "The importance of karnosis in neurotrophic relations" Session I

SHAMARINA, N. N., Physiological Laboratory, Academy of Sciences USSR, Moscow - "Effect of tetanic stimulation on different muscle fibers" II-2-b

STUDITSKIY, Aleksandr Nikolayevich, ZHENEVSKAYA, R. P., and RUMYANTSEVA, O.N., all of the Institute of Animal Morphology imeni A. N. Severtsov, Academy of Sciences USSR, Moscow - "Neurotrophic influence in recovery of structure and function of regenerating muscle" I

TELEPNEVA, V. I., Chair, Animal Biochemistry, Moscow State University, Moscow - "Changes in muscle following denervation" Session II-2-a

YAKOVLEV, N. N., KRASHOVA, A. F., and CHAGOVETS, H.R., all of the Leningrad Scientific Research Institute, Institute of Physical Culture, Leningrad - "Adaptation of energy metabolism in muscle" Session II-2-b

report to be submitted for the Symposium on the Effects of Use and Disuse on Neuromuscular Functions (IURS), Prague-Liblice, Czech, 18-24 Sep 1962.

ZHENEVSKAYA, R.P. (Moskva, B-333, 1-ya Cherevshinskaya ul., 4/34, korp.
B, kv.201.)

Significance of the sensory neuron for the structure and regeneration of skeletal muscle. Akad. anat., gist. i embr. 44 no.5:57-62
My '63. (MIRA 17:6)

1. Laboratoriya gistologii (zav. - prof. A.N. Studitskiy) Instituta
morfologii zhivotnykh imeni A.N. Severtsova AN SSSR, Moskva.

ZHENEVSKAYA, R.P.; UMNOVA, M.M.

Degeneration and regeneration of the sensory nerve endings in
a skeletal muscle. Arkh. anat., gist. i embr. 49 no.11:3-11
N '65.

(MIRA 19:1)

1. Laboratoriya gistologii (zav. - prof. A.N. Studitskiy) Instituta
morfologii shivotnykh imeni Severtsova AN SSSR.

L 24695-66

ACC NR: AP6015826

(A)

SOURCE CODE: R/002.55/026/004/0569/0576

AUTHOR: Zhenevskaya, R. P.; Rumyantseva, O. N.; Novoselova, I. L.-Novosyolova, I. L.
Proshlyakova, Ye. V.--Proshlyakova, E. V.

ORG: Institute of Animal Morphology im. A. N. Severtsov, AN SSSR, Moscow (Institut morfologii zhivotnykh AN SSSR)

TITLE: Regenerative processes in the transplanted skeletal muscle tissue

SOURCE: Zhurnal obshchey biologii, v. 24, no. 1, 1965, pp. 1-10, 11 figs.

TOPIC TAGS: rat, myology, animal physiology

ABSTRACT: The article contains results from research on reorganization and shaping processes in skeletal muscle transplants. More than 100 operations were performed on 1.5-2.5 month-old rats. Cross transplants of the gastrocnemius muscle (from one extremity to another) were done. A detailed morphological and histological description is given of the healing and regenerative processes taking place up to 8 months after the operation. The processes in good and poor transplants are described with respect to the time passed since the operation. Of 11 transplants examined after 6-8 months, 5 consisted mainly of muscle tissue, 2 had a mixed muscle-connective tissue structure, and 4 were predominantly connective tissue. Reformation of the transplant's nervous system is described in detail. In transplantation of intact muscles a considerable part of the material is lost and resorbed; intense shaping processes take place only in the peripheral zone, and the newly formed muscle never exceeds 50% of normal weight. Orig. art. has: 10 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 19Mar65 / ORIG REF: 012 / OTH REF: 005

Card 1/1 FW

UDC: 591.169:001.5

ZHENILOV, Yevgeniy Petrovich, kand.tekhn.nauk; SUYEVALOV, Leonid Fedorovich,
kand.tekhn.nauk, dotsent

Contactless magnetic relay with current transients in the load.
Izv. vys. ucheb. zav.; elektromekh. 4 no.9:111-112 '61. (MIRA 15:2)

1. Voenno-morskaya akademiya (for Suyevalov).
(Electric relays)

24,680

45454

8/892/62/000/001/017/022
B102/B186

AUTHORS:

Baranov, V. P., Dmitriyevskiy, I. M., Zhenin, Yu. S.

TITLE:

A beta-gamma-coincidence spectrometer

SOURCE:

Moscow. Inzhenerno-fizicheskiy institut. Voprosy dosimetrii i bezopasnosti ot izlucheniya, no. 1, 1962, 113-120

TEXT: The authors have designed, constructed and tested an iron-free lens spectrometer with a thick magnetic lens; the chamber size is 1000 x 120 mm, the resolution is $\delta = 1.6\%$ and the relative solid angle is $\omega_p = 0.2\%$. Source and counter are arranged symmetrically in relation to the spectrometer field. It is designed for $E < 3.4$ Mev; the electrons are recorded by a plastic scintillation counter connected through a 50-mm Plexiglas light pipe with an FEU-11B photomultiplier. The gammas are recorded with a 30-30 mm NaI(Tl) counter crystal, connected with the same multiplier. The relative aperture of the gamma spectrometer is adjusted by varying the distance between source and transmitter, the magnetic field being compensated by shifting the magnetic shield. The negative pulses induced at the FEU anode by

Card 1/2

BARANOV, V.F.; DMITRIYEVSKIY, I.M.; ZHENIN, Yu.S.

Spectrometer of β - γ -coincidences. Vop. doz. i zashoh. ot izluch. no.1:
119-120 '62. (MIRA 16,3)

(Gamma-ray spectrometer)

ZHENISHK, Nikolay Nikolayevich, FEDOROVA, T.N., red.; GARNUKHINA, L.A.,
tekh.n.red.

[Rotary dust collectors] Rotatsionnye pyl'otsdeliteli. Moskva,
Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1958
65 p. (MIRA 11:9)

(Dust collectors)

SOV/124-58-8-9014 D

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 101 (USSR)

AUTHOR: Zhenishek, N.N.

TITLE: An Investigation of the Performance of Centrifugal-type Rotary Dust Separators (Issledovaniye raboty tsentrobezhnykh pyleotdeliteley rotatsionnogo deystviya)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the Mosk. inzh.-stroit. in-t (Moscow Structural Engineering Institute), Moscow, 1958

ASSOCIATION: Mosk. inzh.-stroit. in-t (Moscow Structural Engineering Institute), Moscow

Card 1/1

ZHENISHEK, N.N.

On the theory of calculating centrifugal rotary dust removers, Vol.1
san.tekh.no.1:32-36 Ja '57.
(Dust collectors) (MIRA 10:3)

LEVISHCHEV, A.N., inzh.; ZHENISHEK, V.Ye., inzh.; KAVERZIN, V.A., inzh.

Filter press IIM72-1000/45 with a hydraulic discharge of residue for
the filtration of monochromic solutions. Khim. mash. no. 4:41-44
Jl-Ag '61.

(Filters and filtration)

(MIRA 14:8)

CHERKES, L.D.; CHERKES, Yu.I.; ZHENISHEK, Z. [Zenisek, Z.]; LAUSER, O.
[Lauser, O.]

Rapid method of paper chromatography. Zhur. anal.khim. 18
no.12:1436-1441 D '63. (MIRA 17:4)

1. Nauchno-issledovatel'skiy institut antibiotikov, Roztoki u Pragi,
Chekhoslovakiya.

KVEK, German Germanovich; ZHENKO, Kira Aleksandrovna; KATULIN, Konstantin Aleksandrovich; KUDRYAVTSEV, D.S., retsenzentsent; BAKUN, N.K., retsenzentsent [deceased]; BIRYUKOV, I.D., retsenzentsent; BAVSTRUKA, N.F., red.; AKSENOVA, I.I., red.; MEDVEDEV, L.Ya., tekhn.red.

[Manufacture of gobelin fabrics] Proizvodstvo gobelenovykh tkani. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1959. 133 p.

(Jacquard weaving)

(Gobelin tapestry)

(MIRA 13:3)

ZHENOCHKIN, M.N.

02

21

Mathanol, M. N. Zhenochkin. Russ. 83, 818, Sept.
10, 1958. Citing. from wind data. are con-
verted in C(1) - P. II, and from this data, Al(1) is syn-
thesized.

1ST AND 2ND EDITIONS

PROCESSES AND PROPERTIES INDEX

21

Methanol. M. N. Zhernochkin, Russ. 53,068, Sept. 30, 1938. CH₃OH, contg. gases from wood distn. are converted to CO + H₂, and from this mixt. MeOH is synthesized.

ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION

1938-1947

1948-1949

1950-1951

1952-1953

1954-1955

1956-1957

1958-1959

1960-1961

1962-1963

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2510-2511

ZHENODAROVA, S.M.; SEDEL'NIKOVA, E.A.

Separation and properties of pyridinium and barium salts of O-
butoxyethylidene derivatives of uridine 3-phosphate. Izv. AN
SSSR. Ser. khim. no.9:1667-1669 '65. (MIRA 18:9)

1. Institut biologicheskoy fiziki AN SSSR.

MOROZOVA, Ye.A.; ZHENODAROVA, S.M.; IONOVA, L.V.; GULYAYEV, N.N.

Cyclization of peptides with the use of ethoxyacetylene as a
condensing agent. Zhur. ob. khim. 34 no.9:2859-2863 S '64.
(MIRA 17:11)

1. Moskovskiy gosudarstvennyy universitet.

MOROZOVA, Ye.A.; ZHENODAROVA, S.M.

Cyclization of peptides in the presence of ethoxyacetylene.
Zhur. ob. khim. 31 no.1:45-50 Ja. '61. (MIRA 14:1)

1. Moskovskiy gosudarstvennyy universitet.
(Peptides) (Ether)

MOROZOVA, Ye.A.; ZHENODAROVA, S.M.

Cyclization of glyoyl-leucyl-glycyl-leucine tetrapeptide. Vest.
Mosk. un. Ser. 2:khim. 20 no. 5:77-79 S-0 1965. (MIRA 18:12)

1. Kafedra organicheskoy khimii Moskovskogo gosudarstvennogo
universiteta. Submitted Jan. 14, 1965.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064710018-2

I. 14012

APPROVED FOR RELEASE: 03/15/2001

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ZHENODAROVA, S. M., Candidate Chem Sci (diss) -- "The synthesis of peptides and a study of the conditions of their cyclization". Moscow, 1959. 11 pp (Moscow State U im M. V. Lomonosov, Chem Faculty), 100 copies (KL, No 24, 1959, 128)

5(3)

AUTHORS:

Morozova, Ye. A., Zhenodarova, S. M.

SOV/20-125-1-24/67

TITLE:

Production of the Cyclohexapeptide Cycloglycyl-leucyl-glycyl-glycyl-leucyl-glycine (Polucheniye tsiklogeksapeptida tsikloglitsil-leytsil-glitsil-glitsil-leytsil-glitsina)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 1, pp 93-96 (USSR)

ABSTRACT:

In recent times the number of biologically active substances to which the structure of cyclic polypeptides is ascribed (antibiotics, substances with hormonal activity, etc) rapidly increases (Refs 1-5). Already a series of synthetic polypeptides has been obtained (Refs 6-12) and some natural cyclopeptides were synthesized (Refs 1, 5). Besides the production of the substance mentioned in the title the authors used 2 methods of cyclization. In contrast with reference 12 they used ethoxyacetylene for cyclization. The formation of peptide may take place in the presence of alkoxy acetylenes in the medium of ethyl acetate, nitro-methane, and methanol (Ref 13). The formation of the substance mentioned in the title takes place in a diluted solution of the hexapeptide glycyl-leucyl-glycyl-glycyl-leucyl-glycine in methanol in the presence of an

Card 1/2

Production of the Cyclohexapeptide Cycloglycyl-leucyl-
glycyl-glycyl-leucyl-glycine

SOV/20-125-1-24/67

ethoxy-acetylene excess. Its yield attained 11.2% of the theoretically computed value. The same substance was also obtained by the authors according to the method of reference 12 in a 47% yield. This yield can probably be increased by further investigation of cyclization conditions. According to the opinion of the authors the lacking of difficultly separable by-products is an advantage in the ethoxy-acetylene method as compared to the carbodiimide method. 2 further hexapeptides were cyclized: glycyl-phenyl-alanyl-glycyl-glycyl-phenylalanyl-glycyl and glycyl-ε-N-tosyl-lysyl-glycyl-glycyl-ε-N-tosyl-lysyl-glycine. The corresponding cyclopeptides were isolated. Further information will be given. An experimental part gives the usual data. There are 16 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)

PRESENTED: November 24, 1958, by A. N. Nesmeyanov, Academician

SUBMITTED: November 22, 1958
Card 2/2

"APPROVED FOR RELEASE: 03/15/2001

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CIA-RDP86-00513R002064710018-2

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064710018-2"

FREYDLIN, G.N.; ZHENODAROVA, S.M.; CHUKUR, A.P.; POMINA, N.V.

Vinyl monomers based on dicarboxylic acids. Part 1: Monomers
of adipic and succinic acids. Zhur.ob.khim. 32 no.3:792-794
Mr '62. (MIRA 15:3)

(Adipic acid) (Succinic acid)

FREYDLIN, G.N.; ZHENODAROVA, S.M.; FOMINA, N.V.; CHUKUR, A.P.

Vinyl monomers based on dicarboxylic acids. Part 2: Vinyl
alkyl esters of succinic and adipic acids. Zhur.ob.khim. 32
no.3:795-798 Mr '62. (MIRA 15:2)
(Succinic acid) (Adipic acid)

MOROZOVA, Ye.A.; ZHENODAROVA, S.M.

5-benzylhydantoin-3-acetyl-valine prepared from methyl ester
of N-carbobenzoxy-phenyl-alanyl-glycyl-valine. Zhur.ob.khim. 28
no.6:1658-1661 Je '58. (MIRA 11:8)

1. Moskovskiy gosudarstvennyy universitet.
(Valine)

ZHENODAROVA, S.M.

Methods of multistage synthesis of the specific C₃₁-C₅₁-inter-nucleotide bond. Usp. khim. 34 no.1:82-102 Ja '65.

1. Institut biologicheskoy fiziki AN SSSR.

(MIRA 18:4)

MOROZOVA, Ye.A.; ZHENODAROVA, S.M.

Preparation of cyclohexylpeptide cycloglycyl-leucyl-glycyl-
glycyl-leucyl-glycine. Dokl.AN SSSR 125 no.1:93-96 Mr-Apr
'59. (MIRA 12:4)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
Predstavleno akademikom A.N.Nesmeyanovym.
(Glycine) (Peptides)

S/079/62/032/003/003/007
D204/D302

AUTHORS: Freydlin, G.N., Zhenodarova, S.M., Fomina, N.V. and Chukur, A.P.

TITLE: Vinyl monomers based on dicarboxylic acids. II. Vinyl alkyl esters of succinic and adipic acids

PERIODICAL: Zhurnal obshchey khimii, v. 32, no. 3, 1962, 795-798

TEXT: Preparation and properties of the above esters was studied owing to the possibility of producing from them internally plasticized polymers. Direct vinylation of monoesters in the liquid phase and the "vinyl exchange" methods were tried. Normal butyl, amyl, hexyl, octyl and nonyl vinyl adipates were synthesised by the catalytic reaction with acetylene in an autoclave, at 160-180°C and 20 atm, over Cd acetate, inhibiting polymerization with hydroquinone. Optimum conditions for this reaction shall be determined in future work. Succinic monoesters were found to be too unstable to be treated in this manner. Vinyl n-R esters (R=methyl to decyl inclusive) of succinic and adipic acids were prepared, in 30-70 and

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Vinyl monomers based on ...

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30-97% yields respectively, by the action of vinyl acetate on the corresponding monoester at either 20°C for 5-7 days or 30-40°C for ~ 30 hrs. using Hg acetate/conc. H_2SO_4 as a catalyst and hydroquinone as an inhibitor. The yields were reduced at higher temperatures. Experimental details are given and physico-chemical properties of the products are tabulated. There are 2 tables and 12 references: 6 Soviet-bloc and 6 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: US Pat. 2,472,434, (1949); US Pat. 2,153,987, (1939); W.S. Port in the collection "Industrial Fatty Acids and their Applications", N.Y. (1959); R. Adelman, J. Org. Chem., 14, 1057 (1949).

SUBMITTED: January 30, 1961

Card 2/2

AUTHORS: Horozova, Ye. A., Zhenodarova, S.M. SOV/79-28-6-51/63

TITLE: The Formation of 5-Benzylhydantoin-3-Acetylvaline From the Methyl ester of N-Carbobenzoxy-Phenylalanyl-Glycyl-Valine (Obrazovaniye 5-benzilgidantoin-3-atsetilvalina iz metilovogo efira N-karbobenzoksi-fenilalanil-glitsil-valina)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 6, pp. 1658-1661 (USSR)

ABSTRACT: For the purpose of synthesizing the tripeptide of phenylalanyl-glycol-valine required by the authors the methylester of N-carbobenzoxy-phenylalanyl-glycyl-valine was synthesized. It was saponified with soda lye as is done with tripeptides at 37° (Ref 1). After acidification with hydrochloric acid solution and a steam distillation in vacuum instead of the expected product a white crystalline compound with a melting point

237 - 240° was separated. With picric acid it showed an intense carbonyl reaction and no biuret reaction. After the perfect hydrolysis with 25% sulfuric acid phenylalanine, glycine and valine were found on the classifying chromatograph in the hydrolysate. The analysis of the obtained products showed that in the case of a saponification of the methyl ester of carbobenzoxy-phenylalanyl-glycyl-valine (formula I) a subsequent acidification and a vacuum

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The Formation of 5-Benzylhydantoin-3-Acetylvaline SOV/79-28-6-1/63
From the Methyl ester of N-Carbobenzoxy-Phenylalanyl-
Glycyl-Valine

distillation with steam a 5-benzylhydantoin-3-acetylvaline (II) is formed. Thus in this saponification a separation of methyl and benzylalcohol takes place at the same time. The instable carbamic acid of tripeptide forming on this occasion converts to the hydantoin according to scheme 1. After further reactions with the final product and by means of soda lye and hydrochloric acid it was proved that the formation of the 5-benzylhydantoin-3-acetyl-valine from the ester of the carbobenzoxy-phenylalanyl-glycyl-valine takes place as described in publications. There are 6 references, 0 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet
(Moscow State University)

SUBMITTED: April 24, 1957

1. Peptides--Synthesis

Card 2/2

ZHENODAROVA, S.M., MOROZOVA, Ye. A.

Preparation of the cyclohexapeptide of cycloglycylphenylalanyl-glycylglycylphenylalanylglycine. Vest. Mosk. un. Ser. 2: khim 15 no.2:31-35 Mr-Apr '67. (MIRA 13:6)

1. Kafedra organicheskoy khimii Moskovskogo universiteta.
(Glycine) (Peptides)

AUTHORS: Korozova, Ye. A., Zhenodarova, S. M.

SOV/79-28-5-52/03

TITLE: The Synthesis of the Cyanomethylesters of Polypeptides and Their Use in the Synthesis of Polypeptides (Sintez tsian-metilovykh efirov peptidov i ispol'zovaniye ikh pri pcluchenii peptidov)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 6, pp.1661-1668 (USSR)

ABSTRACT: In continuation of several papers by Schwyzer and collaborators (Shvitser) with regard to the synthesis of polypeptides using easily accessible cyanomethylesters (Refs 1 - 5) as acylation agents the authors of the present paper synthesized the cyanomethylesters of some carbobenzoxy derivatives of amino acids, the di- and tripeptides, and investigated their use in the synthesis of polypeptides. The cyanomethylesters were obtained by conversion of the carboxy amino acids (cbz=carbobenzoxy-) or cbz=peptides with chloroacetonitrile in the presence of triethylamine at 60 - 70° with the following esters resulting: cbz-phenylalanine, cbz-phenylalanyl-glycine, cbz-phenylalanyl-glycyl-leucine, cbz-glycyl-phenylalanine, cbz-glycyl-phenylalanyl-leucine, cbz-glycyl-leucyl-phenylalanine (Table 1). They showed good yields of the products in crystalline state. The synthesis of polypeptides

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The Synthesis of the Cyanomethylesters of Polypeptides
and Their Use in the Synthesis of Polypeptides

JUV/19-20-24/03

using cyanomethylesters of the carbobenzoxy derivatives of amino acids or of polypeptides takes place in anhydrous chloroform in the conversion with methylester of the chlorohydrate of the amino acid or of the polypeptide in the presence of triethylamine or of a smaller amount of glacial acetic acid. In Table 2 the comparative data of the synthesis of polypeptides according to the described method and according to that of Boisson (Boisson) (Ref 2) are mentioned. It proved that the present method is in no way inferior to that of Boisson (Table 3). The bromohydrates of the cyanomethylesters of the tripeptides were separated: Phenyl-alanyl-glycyl-leucine, glycyl-phenyl-alanyl-leucine, and glycyl-leucyl-phenyl-alanine. There are 3 tables and 6 references, 6 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: May 9, 1957

1. Peptides--Synthesis

Card 2/2

ZHENODAROVA, S.M.; ADAMOVA, M.N.; LYAPOTA, L.A.

Separation of vinyl esters by paper chromatography. Qualitative determination of vinyl acetate and vinyl alkyl esters of dicarboxylic acids. Zhur. anal. khim. 18 no.2:285-287 F '63. (MIPA 17:10)

1. State Scientific-Research and Design Institute of Nitrogen Industry and Products of Organic Synthesis, Lisichansk Branch, Severodvinsk.

ZHENTELITE, L.A.:

ZHENTELITE, L.A.: "The effect of alcohol, chloral hydrate, and hexenal on the motor and secretory functions of the rumen and abomasum in sheep". Leningrad, 1955. Min Higher Education USSR. Leningrad Veterinary Inst. (Dissertations for the Degree of Candidate of Veterinary Sciences.)

So. Knizhnaya letopis'. No. 49, 3 December 1955. Moscow.

<p>2A</p> <p>PROCESSES AND PROPERTIES INDEX</p> <p>Thiodiphenylamine in the control of anopheles larvae. V. F. Viktorov and Yu. S. Zhenzhurist. <i>Med. Parasitol. Parasitic diseases</i> (U.S.S.R.) 16, No. 4, 46(1947). Thiodiphenylamine alone in a concn. of 1 kg./hectare was ineffective but a suspension of the same amt. with 500 g. of soap in about 300 l. of water was 100% effective. H. L. Williams</p>		<p>6</p>
<p>ASB-368 METALLURGICAL LITERATURE CLASSIFICATION</p>		
<p>1104. 1104.1104.2</p>		
<p>1104. 1104.1104.2</p>		

ZHENILENKO, G.S.

Storage of sugar beets in the Kuban. Sakh.prom. 30 no.8:9-11
Ag. '56. (MLRA 9:11)

1. 2-y Kubanskiy sakharney savod.
(Kuban--Sugar beets--Storage)

KOVERNEGA, M.I.; ZHENILENKO, G.S.

Storage of sugar beets in the Kuban. Sakh.prom. 35 no.7162-64
Jl '61. (MIRA 14:7)

1. Krasnodarskiy kakhaveklottrest.
(Kuban--Sugar beets--Storage)

ZHENILOV, B., instruktor uchebnoy yezdy, (Yaroslavl'); STAROBAKIN, N.;
LUK'YANTSEV, P., prepodavatel' mashinovedeniya i avtodela (Slutsk);
MALOFEYEV, Yu., shofer-ekskavatorshchik (Lodeynoye pole); IVANOV, N.;
slesar'; OLEYNIK, N. (Yoshkar-Ola); IVANOV, B., mayor militsii;
BORODIN, M., sportsmen 1-go razryada, gvardii starshina; YEMEL'YANOV,
Yu., sud'ya Vsesoyuznoy kategorii (Moskva); STREL'CHIK, M. (Moskva);
YEMEL'YANOV, I., shofer (Astrakhan').

Our discussions. Za ruļ. 19 no.4:8-9 Ap '61. (MIRA 14:7)

1. Nachal'nik 2-go gruzovogo avtokhozyaystva, g. Tomsk (for Starobakin).
 2. Starshiy inspektor Gosavtoinspektsii Leningrada (for B.Ivanov).
 3. Predsedatel' Federatsii vodnomotornogo sporta SSSR, (for Yu. Yemel'yancv).
- (Automobile drivers) (Automobile racing)

ZHENISHEK, N. N., Cand Tech Sci -- (diss) "Study of the work of centrifugal dust removers of rotary action." Mos, 1958. 18 pp (Min of Higher Education USSR, Mos Order of Labor Red Banner Engineering-Construction Inst im V. V. Kuybyshev), 110 copies (KL, 17-58, 108)

-37-

ZHENIYEVSKIY, N. P.

ZHENIYEVSKIY, N. P. - "Absorption of Hydrogen Sulfide and Carbon Dioxide by Solutions of Soda and Potash under Bubbling Conditions." Min of Higher Education USSR, Donetsk Order of Labor Red Banner Industrial Institute N. S. Khrushchev, Chair of Processes and Apparatus, Stalino. 1955 (Dissertations For Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letovis' No. 26, June 1955, Moscow

KHARINA, N.; MCHEDLISHVILI, I. (Tbilisi); PETROV, M. (stantsiya Agryz, Kazanskoy zheleznoy dorogi); ZHENOV, N. (g.Sovetsk, Kaliningradskoy zheleznoy dorogi); DOROFEYEV, A.; TIMOFEYEV, Ye., gazoapparatchik; ZHORZHOLODZE, G.; TURUTIN, I. (Minsk)

Letters to the editors. Sov. profsoiuzy 17 no.1:39-42 Ja '61.

(MIRA 14:1)

1. Brigadir brigady kommunisticheskogo truda Novosibirskogo koshevenno-obuvnogo kombinata (for Kharina).
2. Predsedatel' rayonnogo komiteta profsoyuza zheleznodorozhnikov, Velikiye Luki (for Dorofeyev).
3. Chlen bibliotecnogo soveta g.Stalino (for Timofeyev).
4. Predsedatel' Dorozhnogo komiteta profsoyuza rabotnikov zheleznodorozhnogo transporta Zakavkazskoy zheleznoy dorogi (for Zhorzholadze).

(Trade unions)

ZHEPETSKIY, V.; BIRETSKAYA, A.

Resection of lung tissue in tuberculosis with the aid of
the UKL-60 apparatus. Grud.khir. 4 no.6:66-72 N-D'62.

(MIRA 16:10)

1. Iz kliniki torakal'noy khirurgii Meditsinskoy akademii
v Varshave, Sanatoriya imeni Sokolovskogo v Zakopanakh
(dir. - prof. V.Zhepetskiy) i iz torakal'nogo otdeleniya
Sanatoriya imeni Dzerzhinskogo v Otvodku (dir. Ye.Komar).
Adres avtorov: klinika grudnoy khirurgii Meditsinskoy aka-
demii, Varshava.

(LUNGS—SURGERY) (SUTURES)

ARUTYUNYAN, B.Sb.; BORISOV, V.M.; ZHEPLINSKIY, B.M.; MESROPYAN, N.N.;
MESHCHERYAKOV, N.F.; UL'YANOV, N.S.

Apparatus for the destruction of flotation froth. Khim. prom.
no.2:146-147 F '63. (MIRA 16:7)

(Flotation)

ZHEPOLOV, V.

SCIENCE

PERIODICALS: ~~ACTA ZOOLOGICA. Vol. 3, No. 4, 1955.~~
MAGYAR FIZIKAI FOLYOIRAT. Vol. 3, no. 4, 1955.

Zhepolov, V. Elastic scattering of protons on 380-Mev energy protons. Tr.
from the Russian. p. 427

Monthly list of East European Accessions (EEAI) IC, Vol. 8, No2
February 1959, Unclass.

ZHEPOLOV, V.

SCIENCE

PERIODICALS: ~~ACTA ZOOLOGICA. Vol. 3, No. 4, 1955~~
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Zhepolov, V. Elastic scattering of neutrons on 300-Mev energy neutrons. Tr.
from the Russian. p. 433

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h0746

S/120/62/000/004/012/047

E039/E420

24.6730

AUTHORS: Boyko, S.N., Barabash, L.Z., Gerasimov, A.B.,
Dmitriyev, S.P., Zheravov, V.G., Royfe, I.M.,
Stekol'nikov, B.A.

TITLE: Voltage supplies of the deflection and beam
suppression plates of the ion-beam-input system
of the proton synchrotron chamber

PERIODICAL: Pribery i tekhnika eksperimenta, no.4, 1962, 76-80

TEXT: For the accurate injection of the beam into the
acceleration chamber the correct magnitude and sequence of
voltages must be applied to the three pairs of deflector and
suppressor plates or condensers described in the previous abstract
(70-75, of the present journal). The form and values of the
voltage on the deflector and suppressor plates is shown in Fig.1.
The voltage to the plates is supplied from an H.T. unit of
 ± 42 kV stable to better than $\pm 0.2\%$ per day. As the beam orbit
passes between the third pair of deflector plates the residual
voltage on the plates after injection must be reduced to less than
 ± 0.3 kV after 1.5μ sec from the end of the voltage pulse.
A block diagram of the H.T. unit is given, the switching being
Card 1/10 Z

Voltage supplies of the deflection ... S/120/62/000/004/012/047
EO39/E420

accomplished by means of thyratrons, the trigger voltage of which determines the residual voltage. The latter is reduced further by means of a compensating circuit to not more than 100 V during the 1.5 μ sec after the end of the voltage pulse and decays in a period of 5 to 7 μ sec. The value of the residual voltage on the suppressor plates must not exceed 150 V for a suppression potential of 30 kV. Block diagrams of the circuits are given. There are 7 figures. ✓

ASSOCIATIONS: Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental Physics GKAE)
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SUBMITTED: March 16, 1962

Card 2/3 Z

PA 11/49T61

USSR/Medicine - Grass
Medicine - Reproduction

Jul 48

"Comparative Fertility of Tetraploid and Diploid
Millet Growing in the Fields," A. R. Zherbak, Active
Memb., Acad Sci Belorussian SSR, A. B. Afanasyeva,
Agr. Acad Imeni K. A. Timiryazev, 3 1/2 pp

"Dok Ak Nauk SSSR" Vol XXI, No 3

Reports examination of specimens taken from Ural
Grass Selection Sta. Results show that tetraploid
millet is less productive than diploid. Probably due
to abnormal mitosis leading to formation of quadri-
valent complexes by the chromosome. However, authors

11/49T61

USSR/Medicine - Grass (Contd)

Jul 48

hope to improve tetraploid by hybridization. Sub-
mitted 17 May 48.

11/49T61

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ZHERBAK, A.R.; ZHERBAK, E.A.

Variability of intervarietal buckwheat amphidiploids. Dokl. AN
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Apr 49

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"Elek Stants" No 4

Brief reviews include: N. K. Bodashkev's "Breakdowns in Stream Turbines and Their Prevention," G. K. Zherbe's "Testing Asynchronous Motors After Repairs," T. A. Zikeyev and A. I. Karelina's "Analysis of Power Fuels," "Installation and Operation of High-Pressure Boilers," edited by S. Ts. Fayerman and S. M. Shukher, "Handbook on Electrical Insulation," edited by Yu. V. Koritskiy and B. M. Tareyev, and F. A. Stupel's "Automatic and Protective Relays,"

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(Smarods, Julijs, 1884-1956)
(Bibliography--Latvia--Fungi, Phytopathogenic)

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(Bukovina--Fungi, Phytopathogenic)
(Stone fruit--Diseases and pests)

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OZOL, E.Ya. [Ozols, E.], prof., red.; RUPAYS, A.A. [Rupais, A.],
kand. sel'khoz. nauk, red.; ZHERBELE, I.Ya. [Zerbele, I.], st.
nauchn. sotr., red.; SHUL'TS, I. [Sul'ts, I.], red.

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